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ter, and in fact brings the work fairly up to the present. The volumes have the appearance of those which preceded them, and the typography and illustrations are of the high order with which we were familiar in the earlier volumes. The colored plates, which are quite lavishly used, are very fine, indeed; in fact they are not to be excelled anywhere in works of this class. Many of the black illustrations are from photographs which have been reproduced with unusual fidelity. In the text the topics which attract one, on account of full treatment are: *Adiantum*, where many additions are made; *Alsophila*, to which two beautiful illustrations are added; *Aquatic Plants*, covering eight pages, and including five fine photographs; *Asplenium*, with forty figures, and covering thirteen pages; *Bedding Plants*, nine pages; *Cacti*, eight pages; *Chrysanthemum*, ten pages; *Cypripedium*, twelve pages; *Ferns*, six pages; *Landscape Gardening*, eleven pages; *Sphingidae*, six pages; *Tulipa*, four pages.

CHARLES E. BESSEY.  
UNIVERSITY OF NEBRASKA.

#### THE CARNEGIE INSTITUTION.

MR. ANDREW CARNEGIE's great gift of \$10,000,000 for scientific research has been transferred to a corporation to be known as 'The Carnegie Institution.' The original incorporators are Secretary Hay, Dr. D. C. Gilman, lately president of Johns Hopkins University and director of the Washington Memorial Institution; the Hon. Chas. D. Walcott, director of the U. S. Geological Survey and president of the Board of Trustees of the Washington Memorial Institution; Dr. John S. Billings, U. S. A. (retired), director of the New York Public Library; the Hon. Edward D. White, associate justice of the Supreme Court of the United States, and the Hon. Carroll D. Wright, U. S. Commissioner of Labor. The original incorporators will select a board of from 27 to 30 trustees.

The preamble of the articles of incorporation is as follows:

We, the undersigned, persons of full age and citizens of the United States and a majority of whom are citizens of the District of Columbia, be-

ing desirous to establish and maintain in the City of Washington, in the spirit of Washington, an institution for promoting original research in science, literature and art, do hereby associate ourselves as a body corporate for said purposes under an act to establish a code of law for the District of Columbia, approved March 3, 1901, Sections 599 to 604 inclusive.

The objects of the institution, in addition to the promotion of research, are set forth as follows:

To acquire, hold and convey real estate and other property necessary for the purpose of the institution and to establish general and specific funds.

To conduct, endow and assist investigation in any department of scientific literature or art, and to this end to cooperate with governments, universities, colleges, technical schools, learned societies and individuals.

To appoint committees of experts to direct special lines of research.

To publish and distribute documents, to conduct lectures and to hold meetings.

To acquire and maintain a library and, in general, to do and perform all things necessary to promote the objects of the institution.

#### SCIENTIFIC NOTES AND NEWS.

SOME account of the recent meeting of the American Society of Naturalists and the affiliated societies will be found at the beginning of the present issue of SCIENCE. The address of the president, Professor Sedgwick, is also printed above. It may be added that the society took action commanding a national board of health and the preservation of the remains of the cliff-dwellings in Arizona. The sum of \$50 was appropriated toward the University table at the Naples Zoological Station. A committee was appointed, consisting of Professors Minot (chairman), Sedgwick, Cattell, Wilson and McGee, to confer with a similar committee to be appointed by the naturalists of the Central and Western States in regard to the relations of the two societies. The officers elected for next year are as follows: President, J. McKeen Cattell, Columbia University; Vice-Presidents, C. D. Wolcott, U. S. Geological Survey, L. O. Howard, Department of Agriculture, and D. P. Penhallow, McGill University; Secretary, R. G. Har-

rison, Johns Hopkins University; *Treasurer*, M. M. Metcalf, Woman's College, of Baltimore; *Members of Executive Committee*, W. T. Sedgwick, Massachusetts Institute of Technology, and E. B. Wilson, Columbia University.

A MEETING of naturalists of the Central States was held at Chicago, January 2, 1902, and it was voted to organize a society of naturalists of the Central States. A committee of five was ordered to be appointed by the presiding officer, Professor S. A. Forbes, to confer with a committee to be appointed by the American Society of Naturalists, and also to report a form of organization and to nominate members in accordance with the constitution of the American Society of Naturalists. It was voted to meet next year during convocation week at Washington.

A MEETING of zoologists of the Central and Western States was held at Kent Theater, Chicago, January 2, 1902. Professor Davenport was chosen moderator. A committee of three was appointed, consisting of Professors Forbes, Reighard and Davenport, to draw up a constitution. It was voted to meet next convocation week at Washington.

THE American Morphological Society elected the following officers for 1902: *President*, H. C. Bumpus; *Vice-President*, G. H. Parker; *Secretary and Treasurer*, M. M. Metcalf; *Executive Committee*, H. S. Jennings and R. G. Harrison.

THE officers elected by the Association of American Anatomists are as follows: *President*, G. S. Huntington, New York; *Vice-President*, D. S. Lamb, Washington; *Secretary and Treasurer*, G. Carl Huber, Ann Arbor; *New Members of Executive Committee*, C. A. Hamann, Cleveland, George A. Piersol, Philadelphia, and F. H. Gerrish, Portland, Me.

THE American Psychological Association elected officers as follows: *President*, E. A. Sanford, Clark University; *Secretary and Treasurer*, Livingston Farrand, Columbia University; *New Members of the Council*, G. S. Fullerton, University of Pennsylvania, and G. T. W. Patrick, Iowa State University.

At the recent Rochester meeting of the Geological Society of America the following officers were elected: *President*, N. H. Winchell, Minneapolis; *First Vice-President*, S. F. Emmons, Washington; *Second Vice-President*, J. C. Branner, Stanford University; *Secretary*, H. L. Fairchild, Rochester, N. Y.; *Treasurer*, I. C. White, Morgantown, W. Va.; *Editor*, J. Stanley-Brown, Washington; *Librarian*, E. P. Cushing, Cleveland, O.; *Councillors*, C. W. Hayes, Washington, and J. P. Iddings, Chicago.

CAPTAIN ALFRED T. MAHAN, U. S. N. (retired), known for his publications on naval and military problems, has been elected president of the American Historical Association. The Association will meet next year at Philadelphia.

COL. JACOB L. GREENE, of the Connecticut Mutual Life Insurance Co., has been elected president of the Hartford Scientific Society, in place of Dr. Geo. L. Parmele, who declined reelection.

PROFESSOR VIRCHOW, while stepping from a trolley car in Berlin on January 5, fell and was so much injured that it was necessary to carry him to his house.

MAYOR Low has appointed Mr. Ernst J. Lederle health commissioner of New York City, with Dr. Herman M. Biggs as medical officer, having charge of the medical affairs of the board. J. M. Woodbury, M.D., has been appointed street cleaning commissioner.

DR. ARTHUR SMITH WOODWARD, F.R.S., has been appointed keeper of geology in the British Museum in succession to Dr. Henry Woodward, F.R.S., who recently retired. It is rumored that Dr. A. S. Woodward is likely to be succeeded in the assistant keepership by Dr. Francis Arthur Bather, who has been an assistant in the museum since 1887. Dr. Bather is one of the most distinguished members of the modern school of paleontology in Europe, and is a frequent contributor to SCIENCE. He is personally known and esteemed by a large circle of scientific friends in this country.

DR. WILLIAM SOMERVILLE, late professor of agriculture at the University of Cambridge,

has been appointed to be an assistant secretary to the board of agriculture on the retirement of Sir Jacob Wilson.

MR. FRANCIS J. E. SPRING, senior inspector of railways in India, has been given the degree of Master of Engineering at Dublin University. It is doubtful whether Mr. Spring's valuable services for thirty years on the railways and other engineering works in India enabled him to understand the Latin oration given on the occasion by the public orator, Dr. R. Y. Tyrrell.

MR. WILLIAM HUNTER, assistant to the bacteriologist to the London hospital, has been appointed government bacteriologist to the Colony of Hong Kong.

DR. SAMUEL CALVIN, state geologist of Iowa, recently delivered a lecture on the 'Ice Age in Iowa' before the science teachers at the Iowa State Teachers' Association.

PROFESSOR T. D. A. COCKERELL has been elected a correspondent of the Philadelphia Academy of Natural Sciences.

DR. H. M. SAVILLE, of the American Museum of Natural History, left Mexico City on December 31, to continue explorations of the ruins in the Oaxaca Valley.

PROFESSOR LAWRENCE BRUNER, who has on several former occasions visited the warmer portions of North and South America for similar purposes, is contemplating a trip to Costa Rica during the months of February, March and April for the purpose of collecting material for his and other departments in the University of Nebraska. While primarily thus employed, he would be pleased to undertake the collection of material for other institutions when such collecting would not too greatly interfere with the outlined work of the expedition. Other members of the party have also had experience in field work. This expedition is not undertaken entirely in the interests of the University of Nebraska and the funds to pay the expenses of the same are to be supplied only in part by that institution, and it is expected that the commissions undertaken for others would in a measure meet this deficiency. Any person or institution wishing to learn further particulars con-

cerning this proposed expedition is requested to correspond with Mr. Bruner at the University of Nebraska. It is planned to sail from New Orleans on or about February 14, 1902.

A CABLEGRAM to the New York *Sun* from St. Petersburg reports that the expedition under Dr. Herz, which was sent to Kolymsk by the St. Petersburg Academy of Science, has arrived at Srednokolynsk with the remains of a male mammoth. The hide is in an almost complete state of preservation. In the stomach and teeth the remains of undigested food were discovered.

WE learn from *The British Medical Journal* that on December 10 a bronze medallion portrait of the late Professor Thomas Jones, which has been placed in Owens College Medical School, was unveiled in the presence of a large gathering of friends and students. At the same time a brass tablet bearing the names of Professor Jones and those of Dr. Davies, Mr. Eames and Dr. Aldred, former medical students of the college, who also lost their lives in the South African war, was unveiled. The total sum contributed by 275 subscribers to the memorial was £978, and Professor Wright, the treasurer, after defraying the cost of the medallion and tablet, was able to hand over £852 to the college authorities for the foundation of an exhibition in anatomy.

MR. EDMUND WILLIAM SMITH, archeological surveyor of the northwestern provinces of India, died of cholera on November 21, at the age of forty-three years. He had an important work in preserving archeological remains and in publishing descriptions and drawings.

MR. HENRY GEORGE MADAN, senior fellow of Queen's College, Oxford, and for twenty years head of the science department at Eton, died at Gloucester on December 21. He was a fellow of the Chemical Society and was joint author with Mr. A. G. V. Harcourt, of Christ Church, of 'Exercises in Practical Chemistry,' now in its fifth edition, and of other smaller works on chemistry and physics.

WE regret also to record the deaths of Professor J. H. Chievitz, director of the Anatomical Museum at Copenhagen, of Dr. Carl

Cramer, professor of botany in the Technical College at Zurich, and of Professor Henry Settegast, director of the Agricultural Institute at Jena.

SIR ERNEST CASSEL has given through King Edward £200,000 for a sanitarium for consumptives. The King has appointed an advisory committee, composed of leading physicians, including Sir William Henry Broadbent, Sir Richard Douglas Powell, Sir Francis Henry Lacking, and Sir Felix Semon. Three prizes of £500, £200 and £100, respectively, have been offered in connection with this scheme, for the best essays on, and plans for, the construction of the sanitarium. The competition is open to medical men of all nationalities.

By the will of Miss C. B. De Peyster, the New York Historical Society, will, on the death of her sisters, receive an estate of \$130,000.

#### UNIVERSITY AND EDUCATIONAL NEWS.

OVERLIN COLLEGE has collected the \$300,000 necessary to secure the \$200,000 offered by Mr. John D. Rockefeller a year ago, and thus increases its endowment by \$500,000. Barnard College, Columbia University, has not been so fortunate in fulfilling the terms of Mr. Rockefeller's offer of \$200,000, but Mr. Rockefeller has extended the time to April 1.

FOUR trustees of the Worcester Polytechnic Institute, Messrs. S. Salisbury, C. H. Whitcomb, C. H. Morgan and C. G. Washburn, have given \$30,000 to the institute. Part of the money will be devoted to the erection of a new foundry and forge shop.

SIR WILLIAM MACDONALD has placed \$125,000 at the disposal of the Ontario Government to be used in the erection of buildings at the Guelph Agricultural College, for the purpose of giving instruction to school teachers in the elements of nature-study and domestic science.

LORD STRATHCONA has given £25,000 to Aberdeen University.

THE sum of about \$80,000 has now been contributed toward the endowment of the chair of

political economy and social science at Washington and Lee University in memory of the late William L. Wilson. \$100,000 must be collected, and it is hoped that subscriptions will be sent to the treasurer of the fund, Mr. Herbert Welch, 1305 Arch Street, Philadelphia, Pa.

It is said that M. Robert Lebaudy has offered \$25,000 towards the establishment of a French industrial school in connection with the University of Chicago. The new school is to be an integral part of the University and the necessary buildings will be located on the campus. The purpose of the school is the systematic study of American industrial and business methods. The students will consist of 600 graduates of French colleges, who will be selected by the French Government.

A DEPUTATION, representing the English university colleges of Bristol, Dundee, Leeds, Liverpool, London, Manchester, Newcastle (Durham College of Science), Nottingham and Sheffield, recently visited the chancellor of the exchequer to urge an increase in the grant of £25,000 distributed among the colleges. No hope, however, was given that the grant would be increased, except in so far as new colleges may receive small grants.

MR. WALTER PALMER, M.P., has given £2,000 to the University of London to provide the apparatus required for the proposed post-graduate courses of lectures in physiology.

AT the University of London, university scholarships have been awarded as the result of the recent B.A., B.Sc., and M.B. examinations to the following: Classics, H. G. Wood; mathematics, F. Slator; chemistry, G. Tattersall; zoology, H. M. Woodcock; experimental physics, J. Satterly; medicine, C. J. Thomas; obstetric medicine, A. E. Jones; forensic medicine, E. M. Sharp.

DR. G. E. FELLOWES, assistant professor of history in the University of Chicago, has been elected president of the University of Maine.

DR. D. A. WELSH, senior assistant to the professor of pathology in the University of Edinburgh, has been appointed to the chair of pathology in the University of Sydney.